

Message Text

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ACTION ACDA-10

INFO OCT-01 EUR-12 EA-07 NEA-10 IO-13 ISO-00 AF-10

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NSAE-00 NSC-05 OIC-02 SP-02 PA-01 PRS-01 OES-07

SS-15 USIA-06 /129 W

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TO SECSTATE WASHDC 9944

INFO AMEMBASSY BONN

AMEMBASSY LONDON

AMEMBASSY MOSCOW

AMEMBASSY ROME

AMEMBASSY THE HAGUE

AMEMBASSY STOCKHOLM

AMEMBASSY OTTAWA

AMEMBASSY TOKYO

AMEMBASSY NEW DELHI

USMISSION NATO

ERDA HQ WASHDC

ERDA GERMANTOWN

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E O 11652: NA

TAGS: PARM

SUBJ: CCD: FOURTH ROUND OF AD HOC SEISMIC EXPERTS GROUP -
SECOND PLENARY MEETING

1. SUMMARY: THE SECOND PLENARY MEETING OF THE FOURTH
ROUND OF THE AD HOC SEISMIC EXPERTS GROUP WAS HELD ON
AUGUST 2. THE PERUVIAN DEL, MAKING HIS FIRST STATEMENT
IN THE EXPERTS GROUP, DESCRIBED THE FUNCTIONS OF THE
SOUTH AMERICAN REGIONAL SEISMIC CENTER IN PERU. THE
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DISCUSSION OF DRAFTS OF CHAPTER 4 (ON SELECTION OF
SEISMOGRAPHIC STATIONS) AND CHAPTER 8 (ON NETWORK CAPABILITY
ESTIMATES) CONTINUED FROM THE PREVIOUS MEETING.
ALTHOUGH THIS DISCUSSION WAS LENGTHY AND HIGHLY TECH-
NICAL, THE SUBSTANCE OF THESE CHAPTERS WILL REMAIN
ESSENTIALLY INTACT. FINAL COMMENTS ON THESE CHAPTERS
WILL BE GIVEN DURING THE NEXT SESSION, AUGUST 3 IN THE

AFTERNOON. END SUMMARY

2. THE PERUVIAN DEL, MAKING HIS FIRST STATEMENT TO THE EXPERTS GROUP, DESCRIBED THE FUNCTIONS OF THE SOUTH AMERICAN REGIONAL SEISMIC CENTER LOCATED IN PERU. THIS CENTER SERVES SEISMOGRAPHIC NETWORKS IN COLOMBIA, BOLIVIA, ECUADOR, AS WELL AS PERU, AND IS STAFFED ENTIRELY BY SOUTH AMERICANS. THE CENTER'S MAIN FUNCTIONS INCLUDED THE PUBLISHING OF A DATA BULLETIN, MANAGEMENT OF THE FLOW OF SEISMIC DATA FROM EASTERN PACIFIC ISLANDS, AND THE DETECTION OF EVENTS CAUSED BY CONTROLLED SOURCES.

3. THE DISCUSSION OF CHAPTER 4 (SELECTION OF SEISMOGRAPH STATIONS FOR A GLOBAL NETWORK) AND 8 (ESTIMATED CAPABILITY OF SPECIFIED MONITORING SYSTEM) WAS INITIATED BY A LONG STATEMENT BY PASSETCHNIK (USSR). HE WAS QUITE COMPLIMENTARY OF THOSE CHAPTERS (CONVENORS FOR CHAPTER 4 WAS BASHAM (CANADA) AND FOR CHAPTER 8 WAS FILSON (US)), STATING THAT THEIR PRESENTATION WAS CLEAR, EXHAUSTIVE, AND CRUCIAL IN THE REPORT. HE FELT THAT ONE OF THE THREE SEISMIC NETWORKS DISCUSSED, THE SCIENTIFICALLY BEST NETWORK WITHOUT REGARD TO POLITICAL BOUNDARIES, WAS QUITE CREATIVE, AND GAVE AN INDICATION OF WHAT COULD BE DONE BY AN INTERNATIONAL SEISMIC NETWORK. AT THIS POINT, PASSETCHNIK (USSR) MADE A NUMBER LIMITED OFFICIAL USE

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OF PROPOSALS FOR FURTHER WORK IN THESE CHAPTERS WHICH INCLUDED THE FOLLOWING: (1) EXAMINE CAPABILITY OF NETWORK IF SRO STATIONS WERE OPERATING AT ALL THE PROPOSED LOCATIONS; (2) INDICATE THAT LOCATION ESTIMATES HAVE GREATER ACCURACY WHEN CALIBRATED TRAVEL TIMES ARE USED AND HAVE AT LEAST A TWO-FOLD REDUCTION IN THE ERROR; (3) INDICATE DIGITAL PROCESSING TECHNIQUES SHOULD IMPROVE DETECTION AND IDENTIFICATION CAPABILITY; AND (4) INDICATE THAT THE NETWORK CAPABILITY COULD BE IMPROVED BY OPTIMIZING THE NETWORK GEOMETRY. PASSETCHNIK (USSR) THEN ADDED SEVERAL GENERAL COMMENTS WHICH INCLUDED THE FOLLOWING: (1) THE DETECTION CAPABILITY AS GIVEN BY STATIONS REPORTING TO THE INTERNATIONAL SEISMIC CENTER (ISC) IS REALLY BETTER THAN REPORTED IN CHAPTER 8 (THE ISC NETWORK WAS GIVEN AS APPROXIMATELY AN ORDER OF MAGNITUDE WORSE THAN THE THEORETICAL NETWORK PROJECTIONS). THIS IS CAUSED BY PARTIAL REPORTING OF AVAILABLE DATA. HE STATED THE IDENTIFICATION CAPABILITY IN NORTHERN EUROPE SHOULD BE MB OF 3.8 TO 4.1; (2) WHEN IDENTIFYING WITH SHORT PERIOD DISCRIMINATES, USE A S/N RATION OF 3 TO 1 RATHER THAN 5 OR 10 TO 1. THIS CAN BE ACCOMPLISHED

BECAUSE DIGITAL PROCESSING ENABLES ONE TO ESTIMATE
TIME AND AMPLITUDE WITHIN AN ACCURACY OF 20 OR 10 PER
CENT.

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4. THE DISCUSSION OF THESE CHAPTERS BECAME FRAGMENTED,
WITH MANY MINOR HIGHLY TECHNICAL COMMENTS GIVEN BY
SEVERAL REPRESENTATIVES. THE MAIN POINTS OF DISCUSSION
ON CHAPTER 4 CENTERED AROUND THE FOLLOWING: (1) WHETHER
TO INCLUDE ALL OF THE NETWORK DESIGNS THAT WERE
DISCUSSED (NOT RESOLVED); (2) WHETHER TO INCLUDE A
SECTION ON DESIRABLE NEW STATIONS (A SHORT STATEMENT
POINTING OUT NEED FOR ADDITIONAL STATIONS IN SOUTHERN
HEMISPHERE AND TO IMPROVE S/N AT EXISTING SITES WILL BE
INCLUDED); AND (3) STATEMENT BY GDR REPRESENTATIVE THAT A
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POSSIBLE POLITICAL PROBLEM EXISTS WITH SCIENTIFIC NETWORK DESIGN BECAUSE STATIONS WERE NOT INCLUDED FROM SOME COUNTRIES, AND THEREFORE WOULD NOT BE A PARTICIPANT IN THE DATA EXCHANGE. CONCERNING THIS LATTER POINT, BASHAM (CANADA) INDICATED THAT THE DESIGN OF THIS NETWORK CERTAINLY HAD NO POLITICAL INTENT, AND HE WOULD MAKE SURE HIS DISCUSSION CONTAINED THE PROPER QUALIFICATIONS.

5. THE DISCUSSION OF CHAPTER 8 WAS EVEN MORE FRAGMENTED AND LENGTHY, WITH ERICSSON (CHAIRMAN) FINALLY TELLING THE GROUP TO MAKE THEIR SUGGESTIONS IN PRIVATE CONVERSATIONS. FILSON (US) INDICATED THAT THE INTENT OF THE CHAPTER WAS TO GIVE AN INDICATION OF POSSIBLE NETWORK CAPABILITIES THROUGH USE OF A COMPUTER MODEL, AND NOT A DETAILED SCIENTIFIC STUDY OF THE SENSITIVITY OF THE MODEL TO VARIOUS INPUT PARAMETERS. AMONG THE MORE CREDIBLE SUGGESTIONS WERE THE FOLLOWING: (1) GIVE THE DETAILED SCIENTIFIC WORK IN AN APPENDIX (WILL PROBABLY BE ADOPTED); (2) SHOULD INDICATE THAT ARRAYS INCREASE CAPABILITY TO DETECT AND LOCATE; (3) DOUBTS THAT ISC STATION CAPABILITIES REFLECT TRUE STATION CAPABILITY - SOME STATEMENT SHOULD BE MADE ABOUT THIS PROBLEM; (4) SHOULD INDICATE JOINT-EPICENTER METHOD WILL INCREASE LOCATION ACCURACY; (5) SHOULD INCLUDE COMMENTS THAT THE USE OF SECONDARY PHASES WILL INCREASE LOCATION ACCURACY; (6) GIVE PLOTS OF MS NETWORK CAPABILITY USING TWO STATION DETECTION; (7) INDICATE THE EFFECT OF VARIOUS S/N RATIOS ON SHORT PERIOD DISCRIMINATE CAPABILITY; AND (8) INDICATE THE MOST SENSITIVE PARAMETERS IN THE MODEL. AT THIS POINT, ERICSSON (CHAIRMAN) STATED THAT BECAUSE THE TIME WAS LATE, FILSON (US) SHOULD REPLY TO THESE SUGGESTIONS AT THE LIMITED OFFICIAL USE

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NEXT MEETING, AUGUST 3 IN THE AFTERNOON.
VANDEN HEUVEL
#6556

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Message Attributes

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